1983

GRADE 6 MATHEMATICS

ACHIEVEMENT TEST

Alberta

EDUCATION

LB
3054
C2
D362
1983

CURR HIST

Ex libris
UNIVERSITATIS
ALBERTAENSIS

QUAECUMQUE VERA

GRADE 6 MATHEMATICS
ACHIEVEMENT TEST

This test consists of three parts:

Part A: You will have 35 minutes for the first 26 questions.

Part B: You will have 25 minutes for the next 19 questions.

Part C: You will have five timed tests on basic facts.

INSTRUCTIONS:

Read each question carefully and follow the specific instructions given.

Each question has four possible answers from which you are to choose the **CORRECT** or **BEST** answer.

Mark your choice on the separate answer sheet provided.

Use ONLY an HB pencil to mark your answer.

Example

This test is for the subject area of

A. Science
B. Mathematics
C. Physical Education
D. Language

Answer Sheet

A	B	C	D
○	●	○	○

Mark only one answer for each question. If you change an answer, please erase your first mark completely.

Be sure that the number on the answer sheet matches the question you are doing.

Your teacher will tell you when to start and to stop.

DO NOT START THE TEST UNTIL YOUR TEACHER TELLS YOU TO DO SO.

DUPLICATION OF THIS PAPER IN ANY MANNER, OR ITS USE FOR PURPOSES OTHER THAN THOSE AUTHORIZED AND SCHEDULED BY ALBERTA EDUCATION, IS STRICTLY PROHIBITED.

PART A

1. The number that has a 5 in the hundredths place is

   A. 576.893
   B. 982.456
   C. 751.062
   D. 982.564

2. In the number 324.68, the digit in the tens place is

   A. 8
   B. 6
   C. 4
   D. 2

3. 40.359, written in expanded notation, is

   A. (40 x 10) + (3 x 0.1) + (5 x 0.01) + (9 x 0.001)
   B. (4 x 1) + (3 x 0.1) + (5 x 0.01) + (9 x 0.001)
   C. (4 x 10) + (0 x 1) + (3 x 0.1) + (5 x 0.01) + (9 x 0.001)
   D. (4 x 10) + (0 x 1) + (3 x 0.01) + (5 x 0.1) + (9 x 0.001)

4. 830 659, rounded to the nearest thousand, is

   A. 840 000
   B. 831 000
   C. 830 700
   D. 830 000

5. Louis wins 6 Star Wars figures for each 5 that Pam wins. If Louis has 24 Star War figures, then Pam has

   A. 30
   B. 25
   C. 20
   D. 18

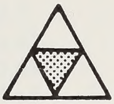
6. During 5 hours of practice, Wayne Gretzky makes 75 shots on goal. At this rate, he should make how many shots on goal in 30 hours?

   A. 440
   B. 300
   C. 500
   D. 450

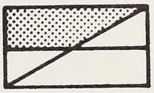
LIBRARY
UNIVERSITY OF ALBERTA

7. Which picture shows 0.25 shaded?

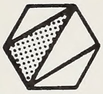
A.



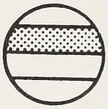
B.



C.



D.



8. 0.7 expressed as a per cent is

A. 0.7%
B. 7%
C. $\frac{7}{10}\%$
D. 70%

9. The set of integers that are greater than -10 and less than -5 is

A. -9, -8, -7, -6
B. -10, -9, -8, -7, -6
C. -11, -12, -13, -14, -15
D. -9, -8, -7, -6, -5, -4

10. Eighty-nine and forty-seven thousandths is written as

A. 89.047
B. 89.0047
C. 89.470
D. 89.47

11. The numeral 524.010 3 is read as

A. five hundred twenty-four and one hundred three
B. five hundred twenty-four and one hundred three hundredths
C. five hundred twenty-four and one hundred three thousandths
D. five hundred twenty-four and one hundred three ten thousandths

12. Find the difference.

$$\begin{array}{r} 202 \\ \underline{-\ 148} \end{array}$$

A. 146
B. 54
C. 64
D. 154

13. 5.87 + 25.003 + 0.95 is equal to

A. 256.85
B. 31.823
C. 30.873
D. 93.203

14. Metal A melts at 1420.7°C. Metal B melts at a temperature 150.5°C higher than metal A. The temperature that metal B melts at is

A. 1270.2°C

B. 1571.2°C

C. 1581.2°C

D. 1671.2°C

15. Find the product.

$$\begin{array}{r} 73.64 \\ \underline{\times\ 2.37} \end{array}$$

A. 76.01
B. 146.218
C. 174.5268
D. 883.68

16. $35\,\overline{)472}$ equals

A. 14 R7
B. 13 R27
C. 13 R17
D. 14 R18

17. A person's heart beats about 72 times a minute. The best estimate of the number of times the heart beats in one hour is

A. 420
B. 4 200
C. 42 000
D. 420 000

18. Divide. $343\overline{)8111.95}$

A. 23.7
B. 32.53
C. 23.65
D. 24.65

19. Sam has 51 pop bottles and 8 empty cartons. Each carton will hold 6 bottles. If Sam fills all the cartons, how many bottles will be left over?

A. 3
B. 6
C. 8
D. 14

20. 7356 ÷ 0.6 equals

A. 4 413.6
B. 1 226.0
C. 12 260
D. 44 136

21. $3.7\overline{)8.88}$ equals

A. 32.857
B. 12.58
C. 9.6
D. 2.4

22. Mary solved a division problem as shown at the right. If you are to check her work by another method, then the method you should use is

$$\begin{array}{r} 83 \\ 42\overline{)3509} \\ \underline{336} \\ 149 \\ \underline{126} \\ 23 \end{array}$$

A. add 83 to 23, and then multiply the sum by 42
B. add 42 to 23, and then multiply the sum by 83
C. multiply 42 by 23, and then add 83 to the product
D. multiply 42 by 83, and then add 23 to the product

23. 61 000 ÷ 100 equals

A. 610
B. 6100
C. 61
D. 601

24. If 5 articles cost $14, $17, $21, $22, and $26, the average cost per article is

A. $20
B. $22
C. $18
D. $19

25. If you answered 26 questions correctly on a test that had 50 questions, your mark would be

A. 52%
B. 50%
C. 76%
D. 26%

Use the information below to answer question 26.

Cars and three-wheeled golfcarts are the only vehicles allowed to park in the parking lot of the Fairbanks golfcourse.

26. If 44 wheels are on the vehicles in the parking lot, how many golfcarts and how many cars could be parked there?

A. 10 golfcarts and 2 cars
B. 2 golfcarts and 10 cars
C. 6 golfcarts and 6 cars
D. 4 golfcarts and 8 cars

END OF PART A

DO NOT GO ON UNTIL YOUR TEACHER TELLS YOU TO DO SO.

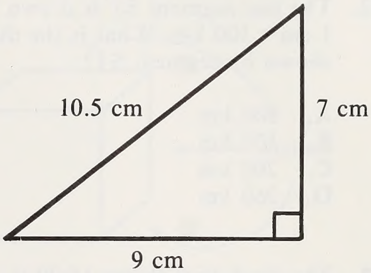
PART B

27. Mr. Simmons put a wire fence around his rectangular garden. The garden is 9 m long and 5 m wide. How many metres of fencing did he use to go around his garden once?

A. 28 m
B. 45 m
C. 23 m
D. 14 m

28. The area of the right-angle triangle at the right is

A. 63 cm²
B. 47.25 cm²
C. 31.5 cm²
D. 36.75 cm²

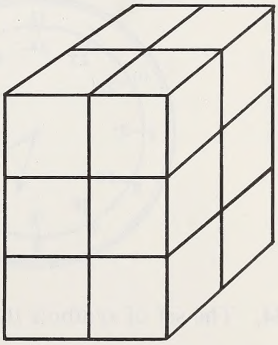


29. How many square metres of wallpaper does Joe need to cover a wall that is 2.5 m high and 6.0 m long?

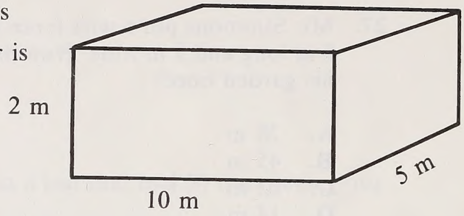
A. 1500 m²
B. 150 m²
C. 15 m²
D. 1.50 m²

30. How many cubes would it take to make the tower at the right?

A. 24
B. 16
C. 12
D. 8

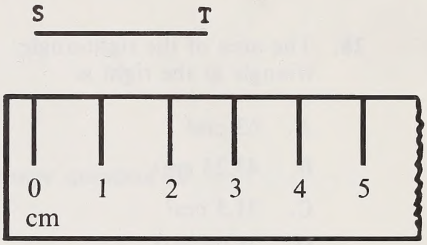


31. An aquarium has dimensions as shown at the right. The smallest number of aquariums you would need to store 200 m³ of water is



A. 1 aquarium
B. 2 aquariums
C. 3 aquariums
D. 4 aquariums

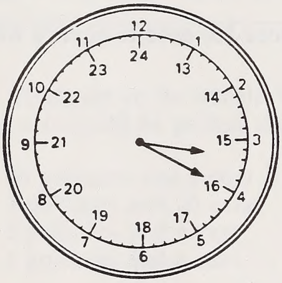
32. The line segment ST is drawn to scale: 1 cm = 100 km. What is the distance shown by segment ST?



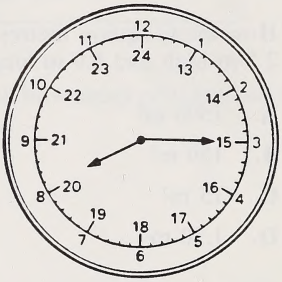
A. 300 km
B. 100 km
C. 200 km
D. 260 km

33. The clock that shows 15:20 is

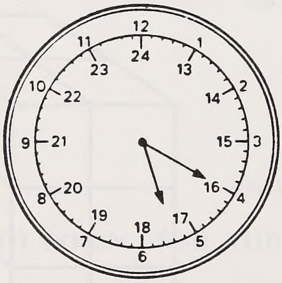
A.



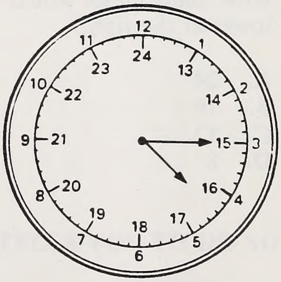
B.



C.



D.



34. The set of symbols that is in order from smallest to largest is

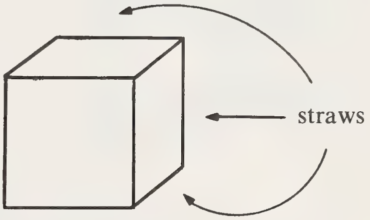
A. mm, dam, cm
B. cm, m, hm
C. dm, km, hm
D. hm, dm, mm

35. The number of centimetres in one metre is

- **A.** $\frac{1}{100}$
- **B.** 10
- **C.** 100
- **D.** 1000

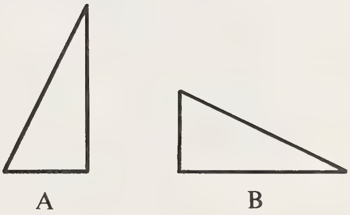
36. How many straws would it take to make the shape of this cube?

- **A.** 24
- **B.** 12
- **C.** 9
- **D.** 8



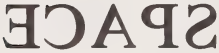
37. The best description of what happens to the triangle from position A to position B is

- **A.** enlarge then turn
- **B.** flip then turn
- **C.** slide then flip
- **D.** turn then slide

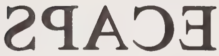


38. A flip of the word at the right is **SPACE**

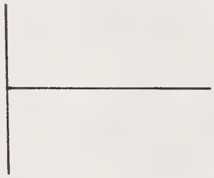
A. SPACE

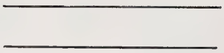
B. 

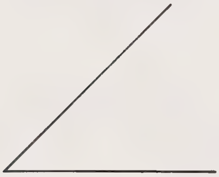
C. ECAPS

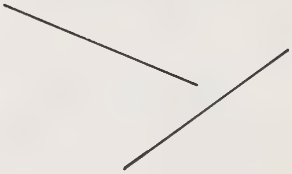
D. 

39. Which diagram below shows perpendicular line segments?

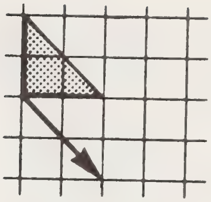
A. 

B. 

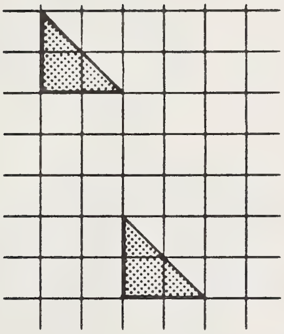
C. 

D. 

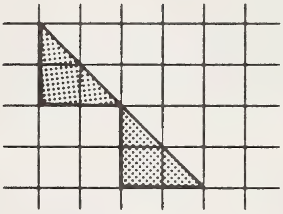
40. This triangle slides to a new position. Which figure below shows the correct position of the triangle after the slide?



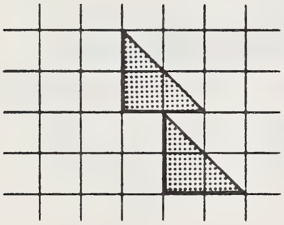
A.



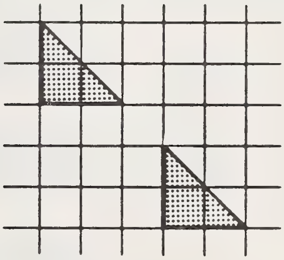
B.



C.



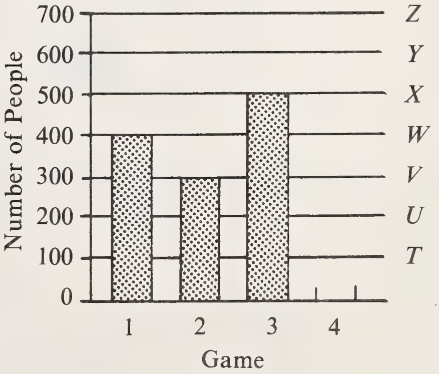
D.



41. The bar graph at the right shows the attendance at three baseball games. If 600 people attended game 4, this number should be shown on the graph by drawing a bar to line

A. Z
B. V
C. X
D. Y

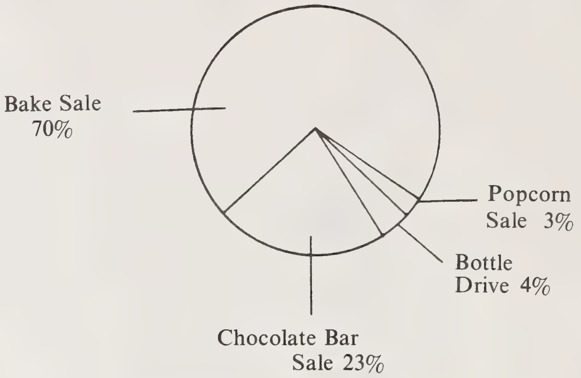
ATTENDANCE AT BASEBALL GAMES



42. A school raised $2000.00 to buy a computer. How much was made from the sale of chocolate bars?

- **A.** $460.00
- **B.** $230.00
- **C.** $140.00
- **D.** $23.00

SOURCES OF MONEY TO BUY A COMPUTER



Use the information below to answer question 43.

NUMBER OF STUDENTS PARTICIPATING IN AFTER-SCHOOL ACTIVITIES

Minor Hockey	🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍
Figure Skating	🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍🧍
Brownies	🧍🧍🧍🧍
4 - H	🧍🧍🧍🧍
Cubs	🧍🧍🧍

KEY

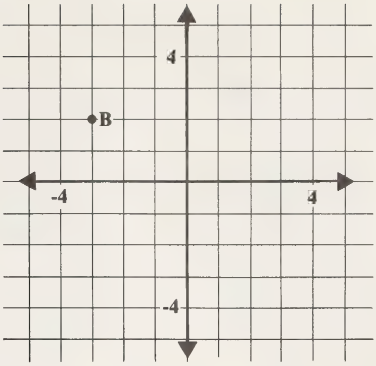
🧍 = 5 students

43. Mrs. Holmes wants to take all the Brownies for a weekend campout. If one car can carry 6 students and the driver, how many cars will be needed?

- **A.** 1
- **B.** 3
- **C.** 4
- **D.** 6

44. The co-ordinates for point B are

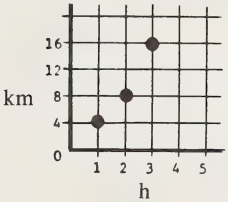
A. (-3, 2)
B. (-3, -2)
C. (2, -3)
D. (-2, -3)



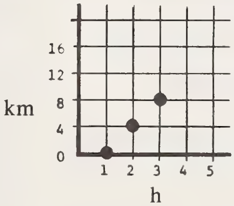
45. On a hiking trip, Jeff walks at a rate of 4 kilometres per hour. If you complete the table and graph the ordered pairs, the graph should look like

HOURS (h)	1	2	3
KILOMETRES (km)			

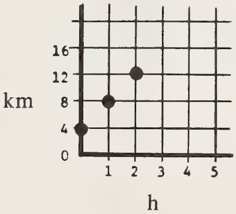
A.



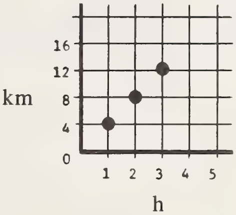
B.



C.



D.



END OF PART B

YOU MAY GO BACK AND CHECK YOUR ANSWERS TO PART B, QUESTIONS 27 TO 45.

BASIC FACTS

The next part of the test will be TIMED.

ADDITION	16 questions	1 minute
SUBTRACTION	16 questions	1 minute
MULTIPLICATION	24 questions	2 minutes
DIVISION	24 questions	2 minutes
MIXED OPERATIONS	20 questions	2 minutes

Your teacher will tell you when to START and when to STOP.

---

46. 8 + 8 = ________

A. 0
B. 14
C. 15
D. 16

47. 5 + 8 = ________

A. 13
B. 14
C. 15
D. 16

48. 9 + 5 = ________

A. 4
B. 12
C. 13
D. 14

49. 8 + 7 = ________

A. 1
B. 13
C. 14
D. 15

50. 9 + 4 = ________

A. 5
B. 13
C. 14
D. 36

51. 6 + 5 = ________

A. 11
B. 12
C. 13
D. 30

52. 5 + 9 = ________

A. 14
B. 15
C. 16
D. 17

53. 4 + 7 = ________

A. 3
B. 11
C. 12
D. 13

54. 5 + 7 = ________

A. 10
B. 12
C. 14
D. 35

55. 4 + 9 = ________

A. 5
B. 12
C. 13
D. 15

56. 7 + 5 = ________

A. 4
B. 9
C. 12
D. 13

57. 6 + 9 = ________

A. 15
B. 16
C. 18
D. 54

58. 7 + 9 = ________

A. 2
B. 11
C. 16
D. 18

59. 9 + 6 = ________

A. 14
B. 15
C. 16
D. 17

60. 8 + 9 = ________

A. 17
B. 18
C. 36
D. 72

61. 6 + 8 = ________

A. 2
B. 12
C. 13
D. 14

SUBTRACTION

---

62. 11 - 9 = ________

A. 2
B. 3
C. 4
D. 5

63. 13 - 6 = ________

A. 6
B. 7
C. 8
D. 9

64. 18 - 9 = ________

A. 6
B. 7
C. 8
D. 9

65. 7 - 7 = ________

A. 0
B. 1
C. 2
D. 14

66. 15 - 8 = ________

A. 6
B. 7
C. 9
D. 10

67. 9 - 6 = ________

A. 0
B. 2
C. 3
D. 5

68. 12 - 7 = ________

A. 5
B. 6
C. 7
D. 8

69. 11 - 5 = ________

A. 6
B. 7
C. 8
D. 9

70. 14 - 9 = ________

A. 5
B. 6
C. 7
D. 8

71. 13 - 8 = ________

A. 4
B. 5
C. 6
D. 7

72. 13 - 4 = ________

A. 7
B. 8
C. 9
D. 10

73. 14 - 8 = ________

A. 4
B. 5
C. 6
D. 7

74. 14 - 6 = ________

A. 6
B. 7
C. 8
D. 9

75. 17 - 8 = ________

A. 6
B. 8
C. 9
D. 11

76. 11 - 3 = ________

A. 8
B. 9
C. 10
D. 7

77. 9 - 0 = ________

A. 0
B. 1
C. 7
D. 9

MULTIPLICATION

78. 5 x 8 = ________

A. 13
B. 35
C. 40
D. 56

79. 8 x 8 = ________

A. 16
B. 32
C. 48
D. 64

80. 9 x 8 = ________

A. 58
B. 63
C. 72
D. 81

81. 9 x 5 = ________

A. 14
B. 38
C. 42
D. 45

82. 6 x 9 = ________

A. 45
B. 48
C. 54
D. 56

83. 9 x 3 = ________

A. 12
B. 18
C. 27
D. 35

84. 6 x 5 = ________

A. 1
B. 11
C. 24
D. 30

85. 5 x 9 = ________

A. 40
B. 42
C. 45
D. 48

86. 8 x 7 = ________

A. 54
B. 56
C. 63
D. 65

87. 7 x 7 = ________

A. 42
B. 46
C. 49
D. 51

88. 9 x 7 = ________

A. 56
B. 63
C. 65
D. 72

89. 9 x 0 = ________

A. 0
B. 1
C. 9
D. 90

90. 6 x 8 = ________

A. 42
B. 45
C. 48
D. 49

91. 9 x 6 = ________

A. 54
B. 63
C. 72
D. 75

92. 5 x 9 = ________

A. 45
B. 48
C. 55
D. 56

93. 6 x 7 = ________

A. 30
B. 38
C. 40
D. 42

94. 9 x 9 = ________

A. 1
B. 18
C. 36
D. 81

95. 4 x 8 = ________

A. 32
B. 36
C. 40
D. 48

96. 7 x 4 = ________

A. 28
B. 30
C. 35
D. 42

97. 7 x 5 = ________

A. 30
B. 35
C. 42
D. 45

98. 6 x 6 = ________

A. 12
B. 36
C. 40
D. 48

99. 8 x 9 = ________

A. 56
B. 63
C. 72
D. 80

100. 4 x 7 = ________

A. 28
B. 32
C. 35
D. 40

101. 7 x 8 = ________

A. 54
B. 56
C. 62
D. 65

DIVISION

102. 42 ÷ 6 = ______

A. 5
B. 6
C. 7
D. 8

103. 63 ÷ 9 = ______

A. 6
B. 7
C. 8
D. 9

104. 54 ÷ 6 = ______

A. 7
B. 8
C. 9
D. 12

105. 63 ÷ 7 = ______

A. 6
B. 7
C. 8
D. 9

106. 40 ÷ 5 = ______

A. 5
B. 7
C. 8
D. 9

107. 81 ÷ 9 = ______

A. 8
B. 9
C. 10
D. 11

108. 45 ÷ 5 = ______

A. 3
B. 6
C. 7
D. 9

109. 49 ÷ 7 = ______

A. 3
B. 6
C. 7
D. 11

110. 32 ÷ 8 = ______

A. 4
B. 5
C. 6
D. 7

111. 24 ÷ 8 = ______

A. 0
B. 3
C. 4
D. 6

112. 48 ÷ 8 = ______

A. 6
B. 7
C. 8
D. 9

113. 28 ÷ 4 = ______

A. 7
B. 9
C. 16
D. 24

114. 36 ÷ 9 = ______

A. 3
B. 4
C. 5
D. 6

115. 64 ÷ 8 = ______

A. 6
B. 7
C. 8
D. 9

116. 72 ÷ 9 = ______

A. 8
B. 9
C. 11
D. 12

117. 72 ÷ 8 = ______

A. 6
B. 7
C. 8
D. 9

118. 42 ÷ 7 = ______

A. 3
B. 4
C. 5
D. 6

119. 27 ÷ 9 = ______

A. 3
B. 4
C. 6
D. 7

120. 28 ÷ 7 = ______

A. 3
B. 4
C. 6
D. 7

121. 45 ÷ 9 = ______

A. 4
B. 5
C. 6
D. 7

122. 48 ÷ 6 = ______

A. 6
B. 7
C. 8
D. 9

123. 54 ÷ 9 = ______

A. 4
B. 5
C. 6
D. 9

124. 56 ÷ 8 = ______

A. 6
B. 7
C. 8
D. 9

125. 56 ÷ 7 = ______

A. 5
B. 6
C. 7
D. 8

MIXED OPERATIONS

Do the indicated operation.

---

126. 56 ÷ 7 = ______

A. 7
B. 8
C. 9
D. 11

127. 12 - 7 = ______

A. 4
B. 5
C. 6
D. 7

128. 8 x 8 = ______

A. 16
B. 56
C. 63
D. 64

129. 5 + 8 = ______

A. 3
B. 13
C. 15
D. 16

130. 18 - 9 = ______

A. 6
B. 7
C. 8
D. 9

131. 24 ÷ 8 = ______

A. 3
B. 4
C. 5
D. 6

132. 4 + 7 = ______

A. 3
B. 11
C. 12
D. 13

133. 36 ÷ 4 = ______

A. 6
B. 8
C. 9
D. 12

134. 0 x 9 = ______

A. 0
B. 9
C. 18
D. 90

135. 9 + 9 = ______

A. 0
B. 12
C. 17
D. 18

136. 4 x 6 = ______

A. 10
B. 12
C. 21
D. 24

137. 63 ÷ 7 = ______

A. 6
B. 8
C. 9
D. 11

138. 6 + 5 = ______

A. 11
B. 12
C. 21
D. 30

139. 17 - 6 = ______

A. 9
B. 11
C. 13
D. 23

140. 13 - 6 = ______

A. 7
B. 8
C. 9
D. 19

141. 9 x 6 = ______

A. 9
B. 15
C. 54
D. 63

142. 7 x 9 = ______

A. 48
B. 56
C. 63
D. 72

143. 28 ÷ 4 = ______

A. 3
B. 5
C. 6
D. 7

144. 8 + 6 = ______

A. 12
B. 13
C. 14
D. 15

145. 15 - 9 = ______

A. 6
B. 7
C. 8
D. 9

STOP

LB 3054 C2 D362 1983
ACHIEVEMENT TEST GRADE 6
MATHEMATICS --

39904803 CURR HIST

000022675664

DATE DUE SLIP

F255

LB 3054 C2 D362 1983
Achievement test.

39904803 CURR HIST